•	•		6)
Notice of Allowability	Application No.	Applicant(s)	<u> </u>
	10/660,894	O'BRIEN ET AL.	
	Examiner	Art Unit	
	Frederick C. Nicolas	3754	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is s	this application. If not included nication will be mailed in due course.	
1. \boxtimes This communication is responsive to <u>the amendment filed</u>	<u>d on 3/29/2006</u> .		
2. The allowed claim(s) is/are 20-38.			
 3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	ve been received. ve been received in Application	n No	ı the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file MENT of this application.	a reply complying with the requiremer	nts
4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi			ϽF
5. CORRECTED DRAWINGS (as "replacement sheets") me	ust be submitted.		
(a) \square including changes required by the Notice of Draftspe	rson's Patent Drawing Review	(PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_··	•	
(b) including changes required by the attached Examine Paper No./Mail Date 4/10/2006.	r's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			f
6. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT	oosit of BIOLOGICAL MATE T FOR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inf	ormal Patent Application (PTO-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948		mmary (PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB		Mail Date <u>4/10/2006</u> . Amendment/Comment	
Paper No./Mail Date	8. 🛛 Examiner's	Statement of Reasons for Allowance	
of Biological Material	9. ⊠ Other <u>Fig.1</u> .		

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with the applicant Mr. William Merten on 4/10/2006.

The application has been amended as follows:

IN THE CLAIMS:

Claim 20, line 11, "may be" has been deleted and --is-- has been inserted.

Claim 23, line 2, "body of liquid" has been deleted and --container-- has been inserted; line 4, "body of liquid" has been deleted and --container-- has been inserted; lines 4-5, "into said body of liquid" has been deleted.

Claim 24, line 3, "the free volume of said system" has been deleted and --the volume of said variable chamber-- has been inserted.

Claim 25, line 5, "actuation" has been deleted and --operation-- has been inserted.

Claim 26, line 3, "substitute said liquid for said gas within" has been deleted and --fill-- has been inserted; line 4, before "while", --with said liquid-- has been inserted; line 4, "within" has been deleted and --of-- has been inserted.

Claim 27, line 5, "the free volume of" has been deleted.

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Claim 32, line 2, "body of liquid" has been deleted and --container-- has been inserted; line 4, "body of liquid" has been deleted and --container-- has been inserted; lines 4-5, "into said body of liquid" has been deleted.

Claim 33, lines 3-4, "the free volume of said system prior to aspiration of a liquid" has been deleted and --the volume of said system-- has been inserted.

Claim 34, line 3, "substitute said liquid for said gas within" has been deleted and --fill-- has been inserted; line 4, before "by", --with said liquid-- has been inserted; line 5, "actuation" has been deleted and --operation-- has been inserted.

Claim 35, line 3, "substitute said liquid for said gas within" has been deleted and --fill-- has been inserted; line 4, before "while", --with said liquid-- has been inserted; line 4, "within" has been deleted and --of-- has been inserted.

Claim 36, line 5, "the free volume of" has been deleted.

Claim 38, line 2, after "of", --:-- has been inserted; line 9, "of" has been deleted and --for-- has been inserted; line 23, "of" has been deleted and --for-- has been inserted; line 29, "the known" has been deleted and --said given-- has been inserted; lines 29-30, "the complete filling of said system" has been deleted and --said exhausting gas from said system-- has been inserted; lines 30-33, "the aspirated liquid and aspiration of an excess volume of said liquid in addition to said given volume of liquid is not necessary to achieve an accurate measurement of said given volume of liquid" has been deleted and --said liquid and an aspiration of said liquid in excess of said given volume of said liquid— has been inserted.

IN THE SPECIFICATION:

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On page 8 of the specification (note: page 7 is the page under the <u>TITLE</u>,

DETAILED DESCRIPTION OF THE INVENTION", line 3, after "from", --a container **15**through-- has been inserted.

IN THE DRAWINGS:

The following changes to the drawings have been approved by the examiner and agreed upon by applicant: in Figure 1, "containers" have been labeled as --15--, as per the attached drawing. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Allowable Subject Matter

- 2. Claims 20-38 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: the prior art fails to disclose or render obvious a device for the volumetric measurement and dispensing of liquids in combination with the other claimed limitations of claim 20:

"a means to detect the presence or absence of liquid in said at least one conduit so that the precise location of said liquid in relation to said plurality of valves and said variable volume chamber is determined."

The prior art fails to disclose or render obvious a device for the volumetric measurement and dispensing of liquids in combination with the other claimed limitations of claim 29:

"a means for removing gas from a system formed by said variable volume chamber, said at least one valve, and said at least one conduit, said means for removing gas comprising a fluid path extending from the interior to the exterior of said

variable volume chamber, said fluid path being distinct from said at least one conduit, and said fluid path in fluid communication with at least one additional valve, whereby said liquid aspirated into said system substantially fills said system thereby minimizing the difference between the volume of said aspirated liquid and the volume of said system."

Further, the prior art fails to disclose or render obvious a method to accurately aspirate any given volume of liquid in combination with the other claimed limitations of claim 38:

"exhausting gas from said system through said fluid path by controllably decreasing the volume of said variable volume chamber until said liquid is displaced to a precise location in said fluid path predetermined by the position of said at least one means of detecting the presence or absence of said liquid,

- i. closing said at least one additional valve,
- j. opening said at least one valve,

k. aspirating an additional volume of said liquid equal to the difference in volume between said given volume of said liquid and said initial volume of said liquid".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick C. Nicolas whose telephone number is (571)-272-4931. The examiner can normally be reached on Monday - Friday from 9:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Y. Mar, can be reached on 571-272-4906. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FN April 10, 2006

Frederick C. Nicolas Primary Examiner Art Unit 3754

4/10/04

